

ABSTRACT OF THE DISCLOSURE

A current sensor does not have large dimensions but is adapted to highly sensitively detect an electric current and can be manufactured with ease at  
5 low cost. The current sensor comprises parallel electric wire sections of a pair of electric wires arranged in parallel with each other and adapted to flow respective electric currents of the same intensity in directions opposite to each other and a  
10 magnetic detection device arranged on a prolonged line connecting the center axes of the parallel electric wire sections. The magnetic detection device has a magnetic field detecting direction rectangular relative to said prolonged line and is adapted to  
15 detect the difference between the magnetic field formed by the parallel electric wire section located close to the magnetic detection device and the magnetic field formed by the parallel electric wire section located remote from the magnetic detection  
20 device and directed oppositely relative to the former magnetic field in order to detect the intensity of the electric currents flowing through said parallel electric wire sections.